

**Mesa Verde National Park – Water Year 2002**  
 371508108212801 Mancos River at Anitas Flat, CO

LOCATION. –Lat 37° 15' 08", Long 108° 21' 28", NW ¼ sec.35, T. 35 N R 14 W, Montezuma County, Hydrologic Unit 14080107, 7.4 miles SSW of Mancos, CO, 3.0 miles south of confluence with Mud Creek on right bank about 1.05 miles inside MEVE boundary.

DRAINAGE AREA. – 160 mi<sup>2</sup>.

PERIOD OF RECORD. – October 2000 to current year.

GAGE. – Water-stage recorder. Elevation of gage is 6330 feet above MSL, as determined by GPS.

REMARKS. – Records are poor from October 1 through November 11; records are fair from November 12 through September 30, except for estimated daily values, which are poor. Estimated daily values November through February are due to ice affect and are considered poor. Daily values are estimated due to sedimentation at that gage from August 22 through September 18 (excluding 9/7 and 9/8).

Discharge, cubic feet per second  
 WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	7.4	e9.0	e9.0	e12	6.0	2.7	0.76	0.50	0.25	0.33	e1.4
2	1.4	7.5	e10	e8.0	e11	8.6	2.7	1.3	0.50	0.25	0.35	e1.8
3	1.7	7.0	12	e7.0	e12	8.7	2.6	1.4	0.50	0.25	0.36	e2.0
4	1.7	6.6	13	e8.0	e12	9.1	3.2	1.1	0.53	0.26	0.36	e8.0
5	1.9	6.0	12	e8.0	e11	10	3.2	0.70	0.53	0.26	0.42	e6.8
6	2.8	5.0	12	e9.0	e11	8.2	3.2	0.68	0.49	0.27	0.37	e5.9
7	4.3	8.5	e12	e9.0	e10	7.9	3.2	0.66	0.45	0.26	0.29	22
8	6.2	9.9	e12	e10	e11	7.5	2.7	0.67	0.41	0.26	0.29	25
9	9.1	10	e12	e11	e10	7.5	2.3	0.72	0.38	0.26	0.27	e1.5
10	6.5	9.6	e13	e11	e11	9.4	2.3	0.66	0.37	0.26	0.29	e0.31
11	7.4	9.4	e12	12	e12	8.0	2.3	0.61	0.38	0.93	0.23	e9.4
12	5.8	9.4	e11	15	13	7.1	2.0	0.57	0.38	0.34	0.22	e2.2
13	5.9	9.4	e10	14	e12	7.7	1.6	0.58	0.36	0.28	0.22	e1.2
14	7.0	9.3	e11	e14	e10	8.6	1.5	0.54	0.35	0.25	0.22	e0.51
15	7.1	9.2	e12	e14	e10	6.4	1.4	0.54	0.34	0.27	0.22	e0.49
16	6.3	8.1	e11	e13	11	5.9	1.7	0.51	0.31	0.28	0.22	e0.40
17	6.2	7.9	e10	e13	9.2	5.1	1.5	0.49	0.30	0.27	0.22	e0.43
18	6.0	7.8	e10	e12	7.8	5.3	1.3	0.52	0.30	0.26	0.22	e4.7
19	5.4	7.6	e11	e11	7.3	4.9	1.1	0.49	0.31	0.26	0.23	1.4
20	4.9	7.7	e12	e10	7.4	4.9	1.1	0.50	0.30	0.27	0.25	0.45
21	5.8	8.0	e13	e9.0	7.0	4.5	1.1	0.49	0.30	0.26	0.61	0.37
22	5.7	8.0	e12	e9.0	7.3	4.3	1.0	0.52	0.29	0.72	e0.24	0.35
23	5.3	10	e11	e10	7.8	4.2	1.00	0.64	0.28	3.9	e0.27	0.35
24	5.2	9.7	e10	e9.0	8.0	4.4	0.95	0.63	0.27	1.9	e0.55	0.35
25	5.4	10	e10	e9.0	6.8	5.5	0.95	0.62	0.27	0.43	e0.45	0.35
26	5.7	11	e9.0	e10	5.9	5.9	1.0	0.59	0.26	0.39	e0.29	0.35
27	6.0	e11	e11	e11	7.3	4.7	1.0	0.60	0.26	0.37	e0.84	0.35
28	8.4	e10	e11	e12	7.7	4.3	0.98	0.56	0.26	0.36	e0.71	1.9
29	11	e9.0	e10	13	---	3.7	0.89	0.55	0.26	0.36	e5.1	0.39
30	8.0	e10	e11	11	---	3.1	0.81	0.52	0.25	0.34	e0.94	0.35
31	8.7	---	e9.0	e11	---	2.9	---	0.50	---	0.34	e1.0	---
TOTAL	173.9	260.0	344.0	332.0	268.5	194.3	53.28	20.22	10.69	15.36	16.58	101.00
MEAN	5.61	8.67	11.1	10.7	9.59	6.27	1.78	0.65	0.36	0.50	0.53	3.37
MAX	11	11	13	15	13	10	3.2	1.4	0.53	3.9	5.1	25
MIN	1.1	5.0	9.0	7.0	5.9	2.9	0.81	0.49	0.25	0.25	0.22	0.31
AC-FT	345	516	682	659	533	385	106	40	21	30	33	200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 – 2002, BY WATER YEAR (WY)

MEAN	5.82	7.42	6.75	6.67	9.89	18.1	37.8	58.6	4.83	0.50	0.53	5.48
MAX	6.04	8.67	11.1	10.7	10.2	29.8	73.8	117	9.31	0.50	0.53	7.58
(WY)	2001	2002	2002	2002	2001	2001	2001	2001	2001	2002	2002	2001
MIN	5.61	6.17	2.40	2.62	9.59	6.27	1.78	0.65	0.36	0.50	0.53	3.37
(WY)	2002	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2002 WATER YEAR

ANNUAL TOTAL	1789.83											
ANNUAL MEAN	4.90											
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	25	Sep 8										
LOWEST DAILY MEAN	0.22	Aug 12										
ANNUAL SEVEN-DAY MINIMUM	0.22	Aug 12										
MAXIMUM PEAK FLOW	115	Sep 7										
MAXIMUM PEAK STAGE	1.83	Sep 7										
INSTANTANEOUS LOW FLOW	0.15	Aug 21										
ANNUAL RUNOFF (AC-FT)	3550											
10 PERCENT EXCEEDS	11											
50 PERCENT EXCEEDS	3.7											
90 PERCENT EXCEEDS	0.27											

e Estimated